

DERWENT-ACC-NO: 2002-567155

DERWENT-WEEK: 200261

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TITLE: On site concrete mixing truck flushing machine has container to receive concrete and with aggregate screens and cement slurry recycling container

INVENTOR: WILDE, W D

PATENT-ASSIGNEE: ELKON PROD INC[ELKON]

PRIORITY-DATA: 2000CA-2330511 (December 29, 2000)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-
IPC				
CA 2330511 A1	June 29, 2002	E	005	B28C
007/00				

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
CA 2330511A1	N/A	2000CA-2330511	December 29, 2000

INT-CL (IPC): B28C007/00

ABSTRACTED-PUB-NO: CA 2330511A

BASIC-ABSTRACT:

NOVELTY - The on site concrete mixer truck flushing machine has a portable container with an open ended collection hopper for discharged concrete, with removable screens, and an air operated pressure vessel. The container is

suspended from the end of the truck discharge chute and residual concrete is washed onto the hopper and over the screens. Cement slurry passes to the pressure vessel for discharge back to the ready-mix drum on the truck.

USE - For wash out of concrete mixer trucks

ADVANTAGE - Allows disposal of high PH concrete

DESCRIPTION OF DRAWING(S) - Drawing shows sketch view of container

CHOSEN-DRAWING: Dwg.1/1

**TITLE-TERMS: SITE CONCRETE MIX TRUCK FLUSH MACHINE CONTAINER
RECEIVE CONCRETE
AGGREGATE SCREEN CEMENT SLURRY RECYCLE CONTAINER**

DERWENT-CLASS: P64

SECONDARY-ACC-NO:

Non-CPI Secondary Accession Numbers: N2002-448971



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CANADIAN PATENT APPLICATION

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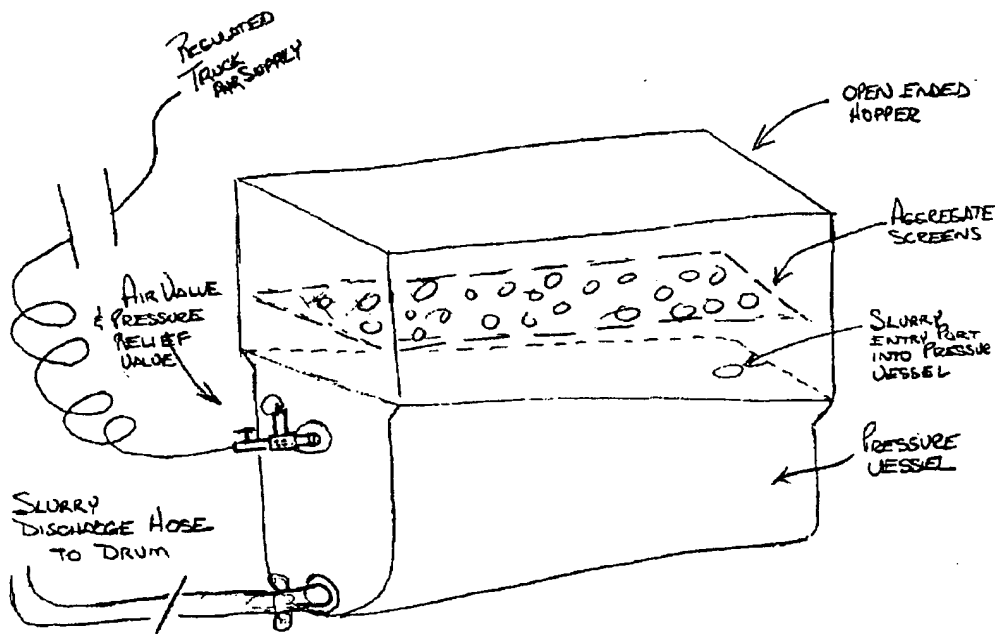
(51) Cl.Int.⁷/Int.Cl.⁷ B28C 7/00

(71) Demandeur/Applicant:
ELKON PRODUCTS INC., CA

(72) Inventeur/Inventor:
WILDE, WILLIAM DAVID, CA

(54) Titre : APPAREIL POUR LAVAGE SUR PLACE DE BETONNIERE

(54) Title: APPARATUS FOR AN ON-SITE CONCRETE MIXER TRUCK WASH-OUT



(57) Abrégé/Abstract:

This application relates to an apparatus designed to collect concrete from a ready mix truck discharge chute. Separate the coarse and fine aggregate fraction from the cement slurry and return the cement slurry back into the ready mix truck drum for reuse or discharge upon return to the point of production. The apparatus consists of a portable container combining an open-ended collection hopper including removable screens and an air operated pressure vessel. The apparatus is suspended off the end of the truck discharge chute and residual concrete is washed onto the hopper and over the screens. Coarse and fine aggregate is retained on the screens and the cement slurry water passes through in to the pressure vessel below. When the pressure vessel is filled to capacity, regulated air pressure supplied via the truck air system is applied to the vessel that in turn discharges the slurry through a discharge hose back into the ready mix drum. The apparatus has no moving parts, utilizing low-pressure regulated air for means of transfer. The apparatus allows for job-site collection and reuse of high PH cement slurries thereby preventing contamination of work sites and adjoining waterways.

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ABSTRACT

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SPECIFICATION

WHAT IS CLAIMED IS:

1. A wash down and containment apparatus to be used in conjunction with the drum of a ready mix concrete truck and its discharge chutes, said apparatus consisting of
[a] A portable container, capable of mounting on the end of the discharge chute, said container consisting of an open- ended hopper with removable screens attached to a regulated pressure discharge vessel.
2. The apparatus of claim 1, utilizes pressurized air pressure supplied by the ready mix truck to discharge collected cement slurry waters.
3. The apparatus of claim 2, is regulated to a maximum operating pressure of 15psi and incorporates an inline pressure release valve to ensure safe operation.
4. The apparatus of claim 1, has no moving wear parts and discharges the slurries back to the drum of the ready mix truck via a $\frac{3}{4}$ " discharge hose.

